Amendments to the Drawings

The attached sheets of drawings include proposed changes to Figs. 1 and 25 and replace the original sheets including Figs. 1 and 25. In Fig. 1, reference AE in the upper left box has been replaced by reference AC, as per the suggestion of the Examiner. In Fig. 25, table 2412-1, column titles "Internal Source Address" and "Internal Destination Address" have been interchanged and column titles "External Source Address" and "External Destination Address" have been interchanged.

Attachments: Annotated sheets showing proposed changes

REMARKS

Amendments to the Title

Please replace the title of the disclosure with the following title:

"TERMINAL TO TERMINAL COMMUNICATION METHOD AND ACCESS CONTROL APPARATUS THEREFOR"

This amendment is for example supported by FIG. 19 and the corresponding portion of the specification.

Objections to the drawings

The Applicants propose amending Figs. 1 and 25 as shown on the sheets submitted herewith.

Amendment to the claims

Claims 1-22 are pending in the present application. The language of claims 1 and 2 has been clarified with regard to the remarks of the Examiner. Claim 4 has amended to further recite the subject-matter of original claim 5; claim 5 has been canceled; claims 6 and 7, originally dependent on claim 4, have been recast in independent form and further recite the subject-matter of original claim 4. Claim 8 has been canceled. The language of claims 9-16 has been clarified. Claim 18 has been amended to further recite the subject-matter of original claim 20 and claim 19 has been amended to further recite the subject-matter of original claim 21. Claims 20-22 have been canceled. No new matter has been added. The claims have not been narrowed nor amended for patentability. The claims have simply been amended to clarify. If anything, the claims have been broadened by these amendments.

Rejections under 35 U.S.C 112

Claims 1-16 stand rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention.

Rejection of claim 1

(a) The Applicants submit that the preamble of claim 1 ends with the word *"comprising"*.

(b) The limitation *"in such a case that a request identification of said conversion table implies a virtual dedicated line"* has been clarified as per the suggestions of the Examiner to recite *"~~in such a case that~~ if a request identification field of said conversion table ~~implies~~ is a value indicating a virtual dedicated line"*.

(c) The limitation *"external packet is inputted is registered as a record of said conversion table"* has been clarified as per the suggestions of the Examiner to recite *"external packet ~~is inputted~~ is registered as a record of said conversion table"*.

(d) The whole limitation *"in such a case that a request identification of said conversion table implies a virtual dedicated line, identification information of a logic terminal into which an external packet is inputted is registered as a record of said conversion table in such a manner that if said identification information of the logic terminal is determined, then an internal destination address is exclusively determined which is stored in a header of an internal packet produced by an access control apparatus installed on the transmission side;"* has been clarified as per the suggestions of the Examiner to recite *"~~in such a case that~~ if a request identification field of said conversion table ~~implies~~ is a value indicating a virtual dedicated line, then identification information of a logic terminal ~~into~~ which has received an external packet ~~is inputted~~ is registered as a record of said conversion table in such a manner that ~~if~~ the determination of said identification information of the logic terminal ~~is determined, then~~ allows for an exclusive determination of an internal destination address ~~is exclusively determined~~ which is stored in a header of an internal packet produced by an access control apparatus installed on the transmission side;"*.

(e) The limitation *"is made different from each other every record; and"* has been clarified as per the suggestions of the Examiner to recite *"is made different from each ~~other every record; and~~ and every other record"*.

(f) The Applicants submit that they have complied with all the suggestions of the Examiner. Applicants respectfully request that the Examiner withdraw the rejection of claim 1 and submit that claim 1 is now in condition for allowance.

(g) In view of the above, the Applicants respectfully request that the Examiner withdraw the rejection of dependent claim 3, and submit that claim 3 is now in condition for allowance.

Rejection of claim 2

(a) The Applicants submit that the language of claim 2 that was also present in claim 1 has been clarified as per the suggestions of the Examiner with regard to claim 1. The Applicants submit that they have complied with all of the suggestions of the Examiner, and respectfully request that the Examiner withdraw the rejection of claim 2. The Applicants further submit that claim 2 is now in condition for allowance.

(b) In view of the above, the Applicants respectfully request that the Examiner withdraw the rejection of dependent claims 9 and 13, and submit that claims 9 and 13 are now in condition for allowance.

Rejection of claim 4

(a) As per the suggestion of the Examiner, the word *"wherein"* has been replaced by the word *"comprising"*.

(b) The limitation *"only when a set of three addresses of an originating internal address assigned at a logic terminal of a communication line termination inputting said external packet, an external destination address of said inputted external packet and said external source address is registered as the record in the conversion table of said input side access control apparatus, said external packet is converted into said internal packet"* has been clarified as per the

suggestions of the Examiner to recite *"only when a set of three addresses of an originating internal address assigned at a logic terminal of a communication line termination ~~inputting~~ inputs said external packet, an external destination address of said ~~inputted~~ entered external packet and said external source address is registered as the record in the conversion table of said input side access control apparatus, and said external packet is converted into said internal packet"*.

(c) The Applicants submit that they have complied with all of the suggestions of the Examiner, and respectfully request that the Examiner withdraw the rejection of claim 4. The Applicants further submit that claim 4 is now in condition for allowance. In view of the above, the Applicants respectfully request that the Examiner withdraw the rejection of dependent claims 5-8, 10-12 and 14-16, and submit that claims 5-8, 10-12 and 14-16 are now in condition for allowance.

Rejection of claim 6

The Applicants submit that the limitation *"said conversion table is two or more,"* has been amended as per the suggestions of the Examiner to recite *"said conversion table is ~~two or more,~~ at least two,"*. Further, the limitation *"an external a destination address "* has been amended as per the suggestions of the Examiner to recite *"an external ~~a~~ destination address"*. The Applicants submit that they have complied with all of the suggestions of the Examiner, and respectfully request that the Examiner withdraw the rejection of claim 6. The Applicants further submit that claim 6 is now in condition for allowance.

Rejection of claims 9 and 10

The limitation *"upper grade protocol"* has been amended as per the suggestions of the Examiner to recite *"protocol"*. The Applicants submit that they have complied with all of the suggestions of the Examiner, and respectfully demand that the Examiner withdraws the rejection of claims 9 and 10. The Applicants further submit that claims 9 and 10 are now in condition for allowance.

Rejection of claims 18-22

Claims 20-22 have been cancelled without prejudice. In claims 18, 19, the limitation "*transmitting permission*" has not been amended, but the Applicants respectfully submit that "*transmitting permission*" and "permission to transmit" are equally clear. Also, the limitation "*receiving permission*" has not been amended but the Applicants respectfully submit that "*receiving permission*" and "permission to receive" are equally clear, and respectfully request that the Examiner withdraw the rejection of claims 18 and 19. The Applicants further submit that claims 18 and 19 are now in condition for allowance.

Rejection under 35 U.S.C 102

Claims 17-19 and 22 stand rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 5,793,763 to Mayes. The Applicants respectfully disagree with this rejection.

Rejection of claim 17

The Examiner asserts that Mayes discloses an IP network wherein "only when the destination address is [a] local address, the packet from the internet is regarded as [a] local packet". The Applicants note that Mayes discloses an IP network wherein (see FIG. 5) an inbound packet is either dropped (steps 208, 218, 228) or translated (steps 212, 220), and wherein no inbound external packet is therefore regarded "as the internal packet". The Applicants therefore submit that Mayes cannot be deemed to disclose or suggest an IP network wherein "*the internal packet is transferred in said IP network by regarding the external packet as the internal packet*", as recited in claim 17, and submit that claim 17 is patentable over Mayes.

Rejection of claims 18-19 and 22

It has been seen above that claim 18 has been amended to incorporate the limitations previously recited in claim 20, that claim 19 has been amended to incorporate the limitations previously recited in claim 21, and that claim 22 has been

cancelled. Therefore, on this basis alone, the rejection of claims 18 and 19 has been mooted.

Rejection under 35 U.S.C 103

Claims 20 and 21 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Mayes in view of U.S. Patent No. 6,308,148 to Bruins. The Applicants respectfully disagree.

Rejection of claim 20

Amended claim 18 recites all of the limitations of cancelled claim 20. With regard to claim 18, the Examiner asserts that Mayes discloses an IP network wherein "the transmitting permission or receive is done by the translation system for security purposes {Fig.5, ref. 218, 224 & 226}". However, the Applicants note that with regard to ref. 226 of FIG. 5, Mayes describes, column 9, lines 63-66, an IP network wherein an inbound packet is translated and forwarded if it is determined that *"the inbound packet does not pose a security risk"*, wherein the security risk is assessed by testing the inbound packet *"to determine whether it meets certain "LUDP" and "TCP" security criteria"*. The Applicants submit that nowhere does Mayes provide for distinct "source transmitting permission" and "destination transmitting permission", and cannot be deemed to suggest or disclose an IP network wherein *"transmitting permission the internal packet is decided by designating any one of source transmitting permission and destination transmitting permission in the record"* as recited in claim 18.

Further, the Applicants submit that the Examiner fails to show that Bruins teaches an IP network wherein *"transmitting permission the internal packet is decided by designating any one of source transmitting permission and destination transmitting permission in the record"* as recited in claim 18, and therefore submit that claim 18 is patentable over Mayes in view of Bruins. Should the Examiner disagree, Applicants respectfully request him to clearly and specifically point out where Mayes or Bruins discloses the above features in accordance with 37 C.F.R. 1.104(c)(2).

Rejection of claim 19

Amended claim 19 recites all of the limitations of cancelled claim 21. With regard to claim 19, the Examiner asserts that Mayes discloses an IP network wherein "the receiving permission data from the source {source receiving permission} is determined at the address translation system in FIG.2 before entering the local enterprise network". However, the Applicants note that with regard to FIG.2, Mayes describes an IP network wherein (column 5, lines 25-28) "*Upon receipt of such packet, translation system 34 will determine if it presents a security risk. If not, it will replace address 68 on the inbound packet with the local address of node 52 and then forward the modified packet to router 48.*" As seem above with regard to claim 18, Mayes teaches that the security risk is assessed by testing the inbound packet *"to determine whether it meets certain "LUDP" and "TCP" security criteria"*. The Applicants submit that Mayes teaches an IP network for testing features of data to be received to assess a security risk, and not for checking in the record of a table if a "receiving permission" is set or not. In particular, Applicants submit that Mayes does not teach an IP network wherein "*receiving permission the internal packet is decided by designating source receiving permission in the record*" as claimed in claim 19.

Further, the Applicants submit that the Examiner fails to show that Bruins teaches an IP network wherein "*receiving permission the internal packet is decided by designating source receiving permission in the record*" as claimed in claim 19, and therefore submit that claim 19 is patentable over Mayes in view of Bruins. Should the Examiner disagree, Applicants respectfully request him to clearly and specifically point out where Mayes or Bruins discloses the above features in accordance with 37 C.F.R. 1.104(c)(2).

* * *

In view of the above, Applicants submit that the application is now in condition for allowance and respectfully urge the Examiner to pass this case to issue.

The Commissioner is authorized to charge any additional fees which may be required or credit overpayment to deposit account no. 12-0415. In particular, if this response is not timely filed, the Commissioner is authorized to treat this response as including a petition to extend the time period pursuant to 37 CFR 1.136(a) requesting an

extension of time of the number of months necessary to make this response timely filed and the petition fee due in connection therewith may be charged to deposit account no. 12-0415.

I hereby certify that this correspondence is being deposited with the United States Post Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

February 2, 2005
(Date of Transmission)

Lonnie Louie
(Name of Person Transmitting)

(Signature)

2/2/05
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Attachments

FIG.1

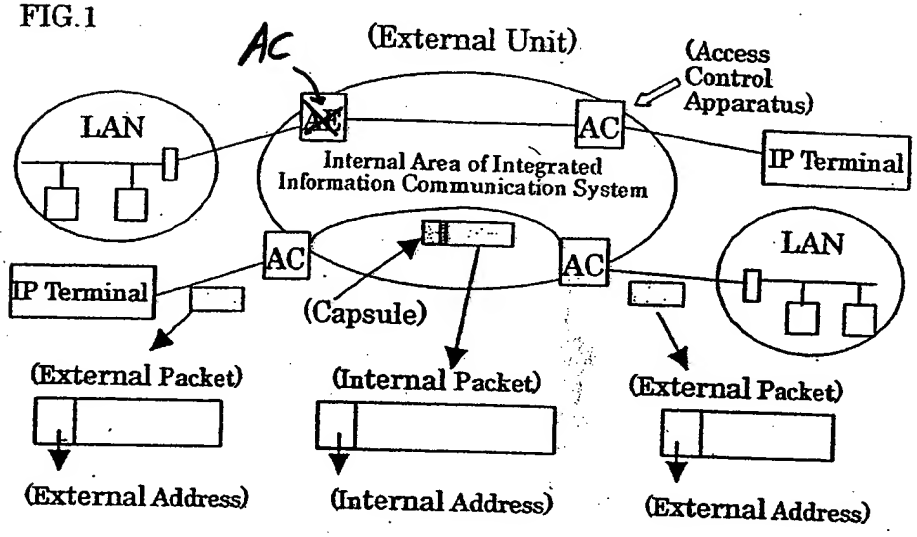

FIG.25

DESTINATION SOURCE

2412

(Address Management Table) 2412-1

~~Internal Source~~ Address	External Source Address	~~External Destination~~ Address	~~Internal Destination~~ Address	Request Identification	Packet Reception Priority Symbol	Closed-Area Identifier
7821	2100	2500	7200	1	pr-7821	1
7821	2110	2600	7300	1	pr-7821	1
7822	1200	1230	7400	1	pr-7822	2
7822	1210	1240	7400	1	pr-7822	2
7822	1220	1250	7500	1	pr-7823	3
7823	2200	2610	7300	1	pr-7823	3
7823	2210	2700	7600	1	pr-7824	3
7824	2300	2710	7600	1	pr-7824	3
7824	2310	2800	7700	1	pr-7825	3
7825	2400	2720	7600	1	pr-7825	3
7825	2410	2810	7700	1	pr-7825	3
. .	. .	. .	. .	3	. .	. .

2412-2

Packet Reception Priority Symbol	Protocol Priority Degree	TCP Socket Priority Degree	UDP Socket Priority Degree
pr-7821	p-1	t-1	NULL
pr-7822	p-1	t-2	NULL
pr-7823	p-2	NULL	u-1
pr-7824	p-2	NULL	u-2
pr-7825	p-1	t-3	u-3
. .	. .	. .	. .

2412-3

Protocol Priority Degree (High Priority Degree - Low Priority Degree)	
p-1	TCP, UDP, ICMP, IGMP
p-2	UDP, TCP, ICMP, IGMP
p-3	ICMP, IGMP, UDP, TCP,

2412-4

TCP Socket Priority Degree	
t-1	sk-1, sk-7
t-2	sk-2
t-3	sk-5

2412-5

UDP Socket Priority Degree	
u-1	sk-3, sk-8
u-2	sk-4
u-3	sk-6

2412-6

Socket Designation			
Socket Code	From / To	IP-Address	port -No.
sk-1	To	2100	30
sk-2	From	1240	32
sk-3	To	2200	40
sk-4	From	2710	40

2412-7

Socket Designation			
Socket Code	From / To	IP-Address	port -No.
sk-5	To	2400	50
sk-6	From	2810	52
sk-7	From	2600	130
sk-8	From	2700	140